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REG No. CBS/C1/CIVIL/6551/2015
Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),
Nagadevanahalli, BENGALURU – 560 056, Karnataka

NT/QC/110V-Y6/2022-23-GSB1 **Date: 09-05-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	95.80	80-100
26.50	72.35	55-90
9.50	47.15	35-65
4.75	35.60	25-50
2.36	16.25	10-20
0.85	7.90	2-10
0.425	4.25	0-5

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Nagarjuna PU College Gate Front Ch: 0.00m to 21.90m

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Date: 09-05-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.56**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.34**	----------
5.	Aggregate Impact Value, %	**28.72**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Nagarjuna PU College Gate Front Ch: 0.00m to 21.90m

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NT/QC/110V-Y6/2022-23-GSB2 **Date: 11-05-2022**

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	97.45	80-100
26.50	74.30	55-90
9.50	56.25	35-65
4.75	32.65	25-50
2.36	16.20	10-20
0.85	8.65	2-10
0.425	3.60	0-5

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Andra Layout Main Rd Ch: 30.00m to 60.00m

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Date: 11-05-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.41 %**	Not more than 2.0 %
2.	Liquid Limit, %	**18.67**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.52**	----------
5.	Aggregate Impact Value, %	**28.15**	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Andra Layout Main Rd Ch: 30.00m to 60.00m

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NT/QC/110V-Y6/2022-23-W3

Date: 23-05-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.45	95-100
26.50	---	-
22.40	73.55	60-80
11.20	53.85	40-60
4.75	34.65	25-40
2.36	23.15	15-30
0.600	19.30	8-22
0.075	4.10	0-5

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Ramanashree Appartment Peak Street Ch: 90.00m to 120.00m

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Date: 25-05-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.78%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34%**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Ramanashree Appartment Dillenia Street RHS Ch: 0.00m to 30.00m

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NT/QC/110V-Y6/2022-23-W7

Date: 01-06-2022

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.45	95-100
26.50	---	-
22.40	70.25	60-80
11.20	53.45	40-60
4.75	34.90	25-40
2.36	22.50	15-30
0.600	18.05	8-22
0.075	4.15	0-5

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Ramanashree Appartment Gulmer Street Ch: 30.00m to 48.60m

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NT/QC/110V-Y6/2022-23-DS1

Date: 08-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1261	900
2	Marshall Flow at 60°C, mm.	3.48	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Prakruthi Layout Cross Rd-8 Ch: 30.00m to 60.00m.

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NT/QC/110V-Y6/2022-23-DBM2

Date: 08-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.15	90-100
19.0	82.15	71-95
13.20	73.40	56-80
4.75	49.70	38-54
2.36	32.05	28-42
0.300	18.95	7-21
0.075	6.55	2-8

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Prakruthi Layout Cross Rd-10 Ch: 60.00m to 90.00m.

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NT/QC/110V-Y6/2022-23-DBM3

Date: 09-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	96.40	90-100
19.0	84.90	71-95
13.20	73.45	56-80
4.75	45.05	38-54
2.36	39.65	28-42
0.300	17.20	7-21
0.075	6.75	2-8

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Prakruthi Layout Cross Rd-12 Ch: 60.00m to 75.70m

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NT/QC/110V-Y6/2022-23-DS4

Date: 09-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75-blows) (At 60°C), kgs.	**1225**	900
2	Marshall Flow at 60°C, mm.	**3.37**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Andra Layout 3rd A Cross Rd From end Ch: 30.00m to 60.00m

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NT/QC/110V-Y6/2022-23-DBM5

Date: 15-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	94.55	90-100
19.0	82.35	71-95
13.20	75.60	56-80
4.75	48.35	38-54
2.36	33.70	28-42
0.300	18.15	7-21
0.075	6.25	2-8

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Andra Layout 4th A Cross Rd From end Ch: 60.00m to 86.30m.

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NT/QC/110V-Y6/2022-23-DS6

Date: 16-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1235**	900
2	Marshall Flow at 60°C, mm.	**3.29**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Andra Layout 2nd Cross Rd Ch: 150.00m to 169.20m

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NT/QC/110V-Y6/2022-23-BB1

Date: 08-07-2022

1. TEST REPORT ON BITUMEN SAMPLE:..

Sub: Testing of Bitumen sample VG-30 Grade.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**51.70^0 C**	Min. 45
2.	Ductility Value at 25^0 C	**104.0 cm**	40
3.	Flash point	**241^0 C**	Minimum 220^0 C
4.	Softening point	**50.70^0 C**	Min. 47

. The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: AndraLayout 1st Cross Rd

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NT/QC/110V-Y6/2022-23-CB1

Date: 08-07-2022

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R.T H Specification, V Revision -2013.
1.	Aggregate Impact Value	22.74 %	Not more than 24 00 %
2.	Combined Flakiness and Elongation index, %	27.43 %	Not more than 35.0 %
3.	Water absorption, %	0.41 %	Not more than 2.0 %
4.	Specific gravity	2.61	-------
5.	Soundness	5.32 %	Max. 12 % in Sodium Sulphate

. The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: AndraLayout 10th Main Rd

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NT/QC/110V-Y6/2022-23-BC2

Date: 10-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.05	90-100
9.5	81.45	70-88
4.75	65.95	53-71
2.36	52.25	42-58
1.18	44.70	34-48
0.600	31.45	26-38
0.300	24.90	18-28
0.150	17.60	12-20
0.075	6.15	4-10

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Prakruthi Layout Cross Rd-11 Ch: 60.00m to 89.00m

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NT/QC/110V-Y6/2022-23-BC3

Date: 13-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	94.25	90-100
9.5	82.10	70-88
4.75	64.35	53-71
2.36	52.85	42-58
1.18	45.30	34-48
0.600	31.75	26-38
0.300	23.65	18-28
0.150	18.05	12-20
0.075	6.95	4-10

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Andra Layout 4th A Cross Rd From end Ch: 30.00m to 60.00m

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NT/QC/110V-Y6/2022-23-BS3

Date: 13-07-2022

1.TEST REPORT ON BITUMINOUS MIXES : .
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1362**	900
2	Marshall Flow at 60°C, mm.	**3.31**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Andra Layout 4th A Cross Rd From end Ch: 30.00m to 60.00m

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NT/QC/110V-Y6/2022-23-BS5 **Date: 18-07-2022**

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1348**	900
2	Marshall Flow at 60°C, mm.	**3.61**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Andra Layout 2nd A Cross Rd from end Ch: 30.00m to 33.90m

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NT/QC/110V-Y6/2022-23-BC6

Date: 18-07-2022

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.25	90-100
9.5	81.10	70-88
4.75	63.35	53-71
2.36	51.80	42-58
1.18	43.35	34-48
0.600	32.75	26-38
0.300	22.65	18-28
0.150	18.10	12-20
0.075	6.35	4-10

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Andra Layout 10th Main Rd Ch: 30.00m to 60.00m

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NT/QC/110V-Y6/2022-23-D1

Date: 16-05-2022

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	89.35	75-95
9.50	58.10	50-70
4.75	52.60	30-55
2.36	29.45	17-42
0.600	19.80	8-22
0.300	11.05	7-17
0.150	8.65	2-12
0.075	6.15	0-10

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Prakruthi Layout Cross Rd-13 Ch: 0.00m to 29.00m

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NT/QC/110V-Y6/2022-23-D2

Date: 18-05-2022

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	100	100
19.00	84.60	75-95
9.50	67.10	50-70
4.75	37.80	30-55
2.36	22.95	17-42
0.600	15.65	8-22
0.300	11.40	7-17
0.150	6.10	2-12
0.075	7.75	0-10

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Ananthpura 1st Cross Rd Ch: 63.00m to 93.00m

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NT/QC/110V-Y6/2022-23-CE1 **Date: 23-05-2022**

1. TEST REPORT ON CEMENT:.

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	154 min	Shall not be less than 30 min
2	Final setting time	261 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.82 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.97 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.76 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Ananthpura Ashwath Katte

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NT/QC/110V-Y6/2022-23-FA1

Date: 23-05-2022

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	98.30	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.05	60-95	75-100	85-100	
01.18	56.10	30-70	55-90	75-100	
600. mic	52.90	15 34	35-59	60-79	
300.mic	10.40	5-20	8-30	12-40	
150.mic	8.25	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.56 %	-----
2	Silt Content	----	0.60 %	Not more than 8%
3	Specific Gravity	----	2.61	-------

The result of the materials tested meets the standards and hence can be used for the work.

Ananthpura Ashwath Katte

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NT/QC/110V-Y6/2022-23-CR1

Date: 03-06-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-05-22	03-06-22	07	22500	550	24.44	**24.15**
	002	"	"	"	"	545	24.22	
	003	"	"	"	"	535	23.78	

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Ananthpura Ashwath Katte Opposite Rd Ch: 0.00m to 25.60m

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NT/QC/110V-Y6/2022-23-CR1A

Date: 24-06-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	27-05-22	24-06-22	28	22500	745	33.11	32.96
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	745	33.11	

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Ananthpura Ashwath Katte Opposite Rd Ch: 0.00m to 25.60m

NABL Lab :No157/A, 2nd Stage Doddabasthi main Road, Bhuvaneshwari-nagar, Bangalore-560056

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NT/QC/110V-Y6/2022-23-CR2A

Date: 25-06-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	28-05-22	25-06-22	28	22500	745	33.11	**33.19**
	002	"	"	"	"	755	33.56	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Ananthpura 6th A main Rd Ch: 5.00m to 35.00m

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NT/QC/110V-Y6/2022-23-CR3A

Date: 27-06-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K N	Compressive Strength (N/mm^2)	Avg. Value
1	001	30-05-22	27-06-22	28	22500	755	33.56	**33.56**
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	760	33.78	

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: Ananthpura 7th A Main Rd Ch: 35.00m to 65.00m

NINETECH INFRA SOLUTIONS PVT LTD BANGALORE

NINETECH
INFRA SOLUTIONS PVT LTD

Email Id: info.ninetechinfra@gmail.com

SLC No: CBS/C1/CIVIL/6551/2015

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri),
Nagadevanahalli, BENGALURU – 560 056, Karnataka

NT/QC/110V-Y6/2022-23-CR4A **Date: 28-06-2022**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Restoration and Improvements of Balance roads of Ananthapura village, Prakruthi layout, Nisarga layout and surrounding areas in ward no-03 of Yelahanka New town Sub division (PACKAGE NO-06).}

Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s Sathya Constructions, Rajeshwaran Satheesh, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-05-22	28-06-22	28	22500	730	32.44	32.81
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Ananthpura 4th A Main Rd Ch: 0.00m to 30.00m